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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/899,679	07/05/2001	David Wu	71795/10728	2675	
23380 7	590 11/01/2004		EXAMINER		
TUCKER, ELLIS & WEST LLP 1150 HUNTINGTON BUILDING 925 EUCLID AVENUE			HA, DAC V		
			ART UNIT	PAPER NUMBER	
,	OH 44115-1475		2634		

DATE MAILED: 11/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				1 <b>N</b>				
		App	olication No.	Applicant(s)				
Office Action Summary		09/	899,679	WU ET AL.				
		Exa	miner	Art Unit				
		Dad	: V. Ha	2634				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAILIN - Extensions of after SIX (6) M - If the period for If NO period for Failure to reply Any reply rece	NED STATUTORY PERIOD F IG DATE OF THIS COMMUN time may be available under the provisions ONTHS from the mailing date of this comn r reply specified above is less than thirty (3 r reply is specified above, the maximum st within the set or extended period for reply ived by the Office later than three months a term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). Inunication. 0) days, a reply within atutory period will apply will, by statute, cause	in no event, however, may a reply be the statutory minimum of thirty (30) day and will expire SIX (6) MONTHS from the application to become ABANDON	imely filed  ays will be considered time in the mailing date of this c IED (35 U.S.C. § 133).				
Status								
1)⊠ Respo	onsive to communication(s) file	ed on <i>05 July 20</i>	01.					
· · · · · · · · · · · · · · · · · · ·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)☐ Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4) Claim	Claim(s) <u>1-47</u> is/are pending in the application.							
4a) Of	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)☐ Claim	Claim(s) is/are allowed.							
6)⊠ Claim	Claim(s) <u>1-47</u> is/are rejected.							
7) Claim	Claim(s) is/are objected to.							
8)☐ Claim	Claim(s) are subject to restriction and/or election requirement.							
Application Pa	pers							
9)∏ The sp	ecification is objected to by the	e Examiner.						
· ·	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
	11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 3	35 U.S.C. § 119							
	vledgment is made of a claim b) Some * c) None of:	for foreign prior	ity under 35 U.S.C. § 119(a	a)-(d) or (f).				
1.	1. Certified copies of the priority documents have been received.							
2.	2. Certified copies of the priority documents have been received in Application No							
3.□	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internatio	nal Bureau (PC	T Rule 17.2(a)).					
* See the	attached detailed Office actio	n for a list of the	e certified copies not receiv	ed.				
Attachment(s)								
	erences Cited (PTO-892) tsperson's Patent Drawing Review (P	TO-948)	4) Interview Summar Paper No(s)/Mail [					
3) Information D	sclosure Statement(s) (PTO-1449 or fail Date		5) Notice of Informal 6) Other:		)-152)			

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## **DETAILED ACTION**

# Claim Objections

1. Claims 1-42 are objected to because of the following informalities:

## Claim 1:

Line 5, "said output module" should be changed to "said at least an output module".

Lines 6-7, "said output module" should be changed to "said at least an output module".

## Claim 4:

Line 2, "LVDS" should be changed to "Low Voltage Differential Signal (LVDS)".

#### Claim 6:

Line 1, "said output module" should be changed to "said at least an output module".

#### Claim 22:

Line 5, "said output module" should be changed to "said at least an output module".

Line 6, "said output module" should be changed to "said at least an output module".

#### Claim 24:

Line 1, "Claim 24" should be changed to "Claim 23".

#### Claim 25:

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Line 2, "LVDS" should be changed to "Low Voltage Differential Signal (LVDS)".

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 22, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Booth et al. (US 6,516,352) (hereafter Booth).

Regarding claim 1, Booth discloses the claimed subject matter "providing at least an output module for transmitting information and an input module for receiving said information; and configuring said output module and said input module according to communication parameters of a predetermined type of physical interface to which said output module and said input module interface such that communication of said information is facilitated therebetween" including providing input/output through combination of elements 420/430 and 420/440 (inherently, there should be another interface card for communicating with card 212); communication through the input/output is establish via the "predetermined interface type" (element 412) in

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accordance to the "communication parameters" from elements 410 and 414 (col. 6, lines 30-48; col. 12, lines 10-49).

Regarding claim 2, Booth further discloses "wherein said information in the providing step is communicated with a type of said physical interface, which is an 8B/10B device" in col. 4, line 60.

Regarding claim 3, Booth further discloses "wherein a function mapping register is utilized during the configuring step to provide control words in accordance with said communication parameters of said predetermined type of physical interface" in col. 15, lines 10-18.

Regarding claims 22-24, see claims 1-3 above, respectively.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4-21, 25-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Booth in view of Ng (US 6,388,591).

Regarding claim 4, Booth discloses all the claimed subject matter in claim 4, as stated above, except for the claimed subject matter "wherein said information in the providing step is communicated with a type of said physical interface, which is an LVDS device". Ng, in the same field of endeavor, discloses utilization LVDS would result in

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reduced power consumption (col. 2, lines 14-24). Therefore, the claimed subject matter wherein said information in the providing step is communicated with a type of said physical interface, which is an LVDS device" would have been obvious to one skilled in the art on the basis of Booth and Ng.

**Regarding claim 5**, Ng. also suggests the teaching of the claimed subject matter "wherein a mapping function is not required, and said information is encoded and input directly to said physical interface" in col. 1, lines 43-50.

Regarding claims 25-26, see claims 4-5 above.

Regarding claims 6-21, 27-42, these claimed subject matter are rather design specific and would have been realized by one skilled in the art on the basis of Booth and Ng.

Regarding claim 43, see claim 7 above.

Regarding claim 44-47, see claims 2-4 above.

### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Azizoglu et al. (US 6,430,201) disclose Method And Apparatus For Transporting Gigabit Ethernet And Fiber Channel Signals In Wavelength-Division Multiplexed Systems.

Allen, Jr. et al. (US 6,404,752) disclose Network Swith Using Network Processor And Methods.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-273-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dac V. Ha Examiner Art Unit 2634